

Title (en)

DETERMINING EXTRACELLULAR ANALYTE CONCENTRATION WITH NANOPLASMONIC SENSORS

Title (de)

BESTIMMUNG DER KONZENTRATION VON EXTRAZELLULÄREN ANALYTEN MIT NANOPLASMONISCHEN SENSOREN

Title (fr)

DÉTERMINATION D'UNE CONCENTRATION D'ANALYTE EXTRACELLULAIRE AVEC DES CAPTEURS NANOPLASMONIQUES

Publication

**EP 3311140 B1 20201125 (EN)**

Application

**EP 16812602 A 20160620**

Priority

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- US 2016038308 W 20160620

Abstract (en)

[origin: WO2016205775A1] Methods and systems for determining extracellular concentration data of an analyte are disclosed. A method for determining extracellular concentration data of an analyte includes receiving sensor data from one or more arrays of functionalized plasmonic nanostructures on a localized surface plasmon resonance imaging chip in contact with a fluid containing at least one living cell for a plurality of times, determining intensity data for the one or more arrays, determining fractional occupancy based on the intensity data, and determining extracellular concentration data based on the fractional occupancy data. A system for determining extracellular concentration data of an analyte includes a LSPRi chip, a sensor component, an intensity component, a fractional occupancy component, a concentration component, and a processor to implement the components.

IPC 8 full level

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CPC (source: EP US)

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